System Requirements

SuccessMaker 5

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System requirements are subject to change. For the latest information on system requirements, go to support.pearsonschool.com.

For more information about Digital Learning Solutions, go to pearsonschool.com/digital.

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Overview

Based on current hardware and software technologies, Pearson has determined that the system requirements listed in this document will deliver acceptable operation and performance for the SuccessMaker 55 product.

Your site's actual performance may vary due to different configurations, including the following:

- Server application load
- Available network bandwidth
- Client security configuration
- Number of concurrent users
- Total student population
- Courseware usage
- Other variables

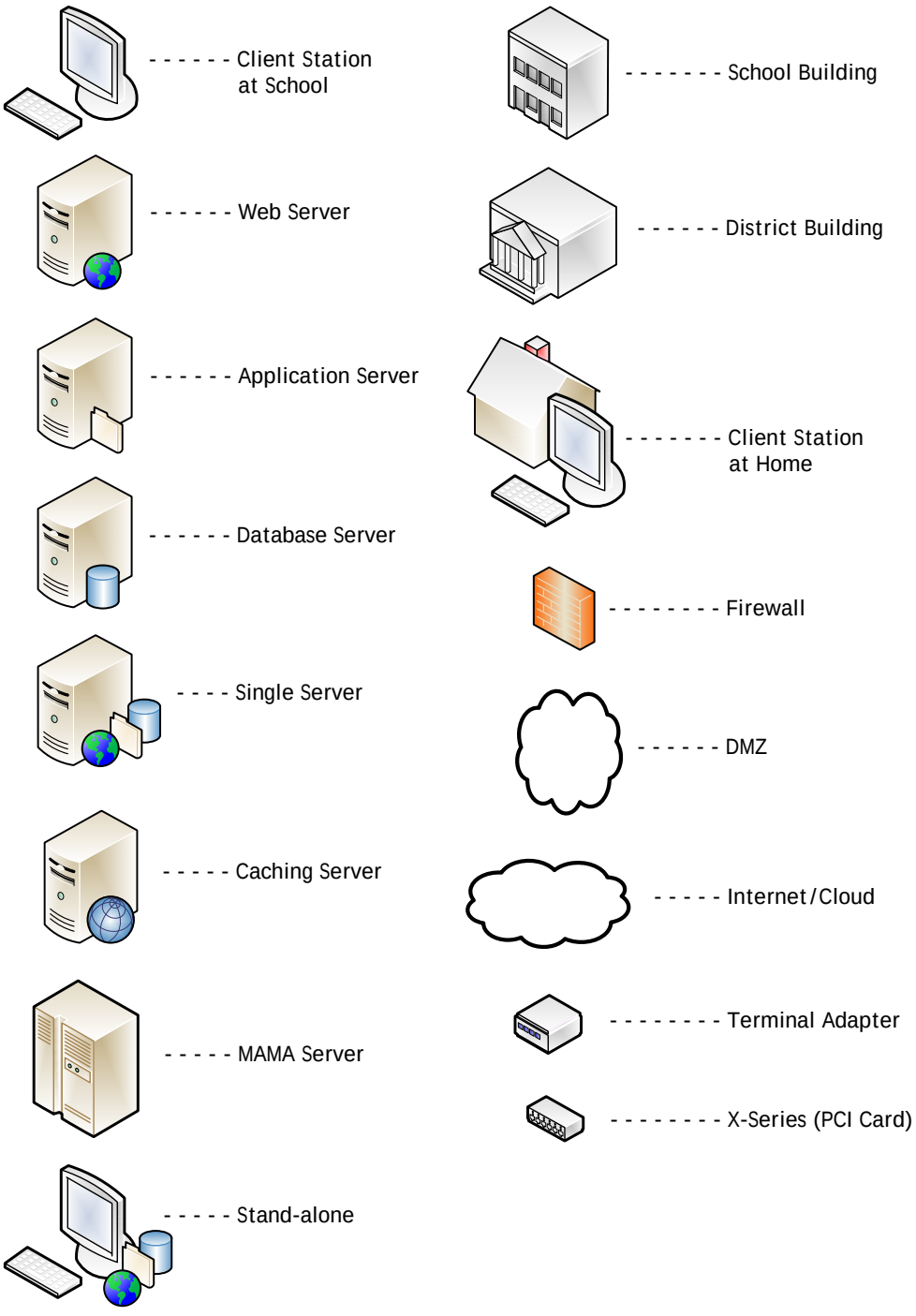
System requirements are subject to change because of rapid advances and changes in technology, as well as future product enhancements. If you have questions regarding the suitability of your specific computing environment, contact your Pearson Sales Representative or Sales Engineer.

Specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Figure Diagram Legend

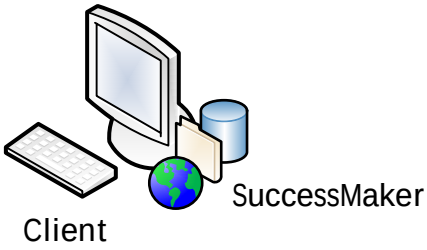
Figure diagrams are displayed throughout this document. Use the following legend to identify each product component, network, server, client, and location.


- - - - - - Client Station at School
- - - - - - Web Server
- - - - - - Application Server
- - - - - - Database Server
- - - - Single Server
- - - - - Caching Server
- - - - - MAMA Server
- - - - - Stand-alone
- - - - - - - School Building
- - - - - - District Building
- - - - - - - Client Station at Home
- - - - - - - - Firewall
- - - - - - DMZ
- - - - - Internet/Cloud
- - - - - - - - Terminal Adapter
- - - - - - - - X-Series (PCI Card)

2

Stand-alone Deployment

The Stand-alone deployment supports one workstation that acts as the client and server at the same time. The workstation will have all the SuccessMaker product components installed: web, application, and database.



One Concurrent Student

Supports one concurrent client **With a total student population of 40** **Requires one dedicated physical client**
Client running: Web, Application, and Database
Operating Systems: • Windows XP (32-bit / 64-bit) • Windows Vista (32-bit / 64-bit) • Windows 7 (32-bit / 64-bit) • Mac OS X 10.6.x (32-bit / 64-bit) • Mac OS X 10.7.x (64-bit) • Mac OS X 10.8.x (64-bit) Note: Hardware is based from the operating system manufacturer's system requirements.

Supports one concurrent client
With a total student population of 40
Requires one dedicated physical client

Hardware:

- Designed for 1024x768 resolution
- Any compatible sound card
- Any speakers or stereo headphones
- Microphone with noise canceling

Software:

- Internet Explorer 8.x, 9.x, 10.x or 11.x (32-bit / 64-bit)
- Safari 5.1.2 – 5.1.9; 6.0.x (32-bit / 64-bit)
- Firefox (32-bit)
- Chrome (32-bit) - OS X 10.6.x only
- Java Runtime Environment:
  - Windows = 1.6.24 – 1.6.45; 1.7.1 – 1.7.5; 1.7.7 – 1.7.51 (32-bit / 64-bit) [1.7.6 is not supported]
  - Mac = 1.6.24 – 1.6.71 (32-bit and 64-bit); 1.7.7 – 1.7.51 (64-bit) [1.7.6 is not supported]
- Adobe Reader (Teacher only)
- Adobe Flash Player 11.1.x – 11.8.x (32-bit / 64-bit)

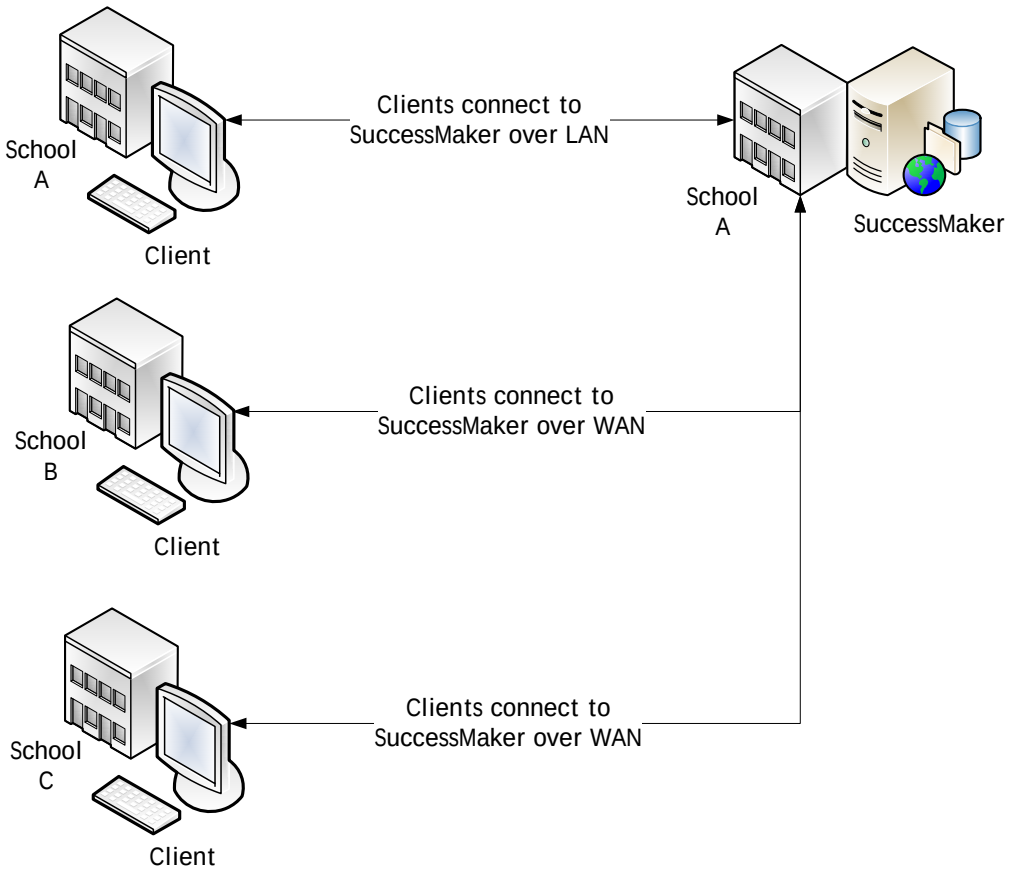
3

Single Server Deployment

The single server deployment is a model in which all components of the software are installed on one physical server.

Typically, the single server is located in a lab or different school location used by the lab or individual school. The single server can be available to multiple schools, if all requirements are met, including the concurrent student limitation.

Depending on the requirements, a single server can be an effective and low cost solution; one that requires less power and provides simple installation and maintenance.



Up to 200 Concurrent Students

Supports up to 200 concurrent clients
With a total student population of 1,500
Requires one dedicated physical server

Server running: Web, Application, and Database

Operating System:

- Windows Server® 2003 SP2 (32-bit / 64-bit)
- Windows Server 2003 R2 SP2 (32-bit / 64-bit)
- Windows Server 2008 SP2 (32-bit / 64-bit)
- Windows Server 2008 R2 (64-bit)
- Mac OS X Server 10.6.x (32-bit / 64-bit)
- Mac OS X Server 10.7.x (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit)
- openSUSE 12.x (64-bit)

Hardware:

- Single Intel® Core 2 Duo 2.0 GHz processor
- 2 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Dual-layer DVD-ROM
- Single 7200 RPM SATA hard drive
- 100 GB of available disk space

Up to 400 Concurrent Students

Supports up to 400 concurrent clients **With a total student population of 1,500** **Requires one dedicated physical server**
Server running: Web, Application, and Database
Operating System: • Windows Server 2003 SP2 (32-bit / 64-bit) • Windows Server 2003 R2 SP2 (32-bit / 64-bit) • Windows Server 2008 SP2 (32-bit / 64-bit) • Windows Server 2008 R2 (64-bit) • Mac OS X Server 10.6.x (32-bit / 64-bit) • Mac OS X Server 10.7.x (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit) • openSUSE 12.x (64-bit)
Hardware: • Single Intel Core 2 Duo 2.13 GHz processor • 4 GB of RAM • Single 1000 Mb/s Network Interface Card • Dual-layer DVD-ROM • Two 7200 RPM SATA hard drives in RAID 1 • 100 GB of available disk space

Up to 2,000 Concurrent Students

Supports up to 2,000 concurrent clients
With a total student population of 10,000
Requires one dedicated physical server

Server running: Web, Application, and Database

Operating System:

- Windows Server 2003 SP2 (32-bit / 64-bit)
- Windows Server 2003 R2 SP2 (32-bit / 64-bit)
- Windows Server 2008 SP2 (32-bit / 64-bit)
- Windows Server 2008 R2 (64-bit)
- Mac OS X Server 10.6.x (32-bit / 64-bit)
- Mac OS X Server 10.7.x (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit)
- openSUSE 12.x (64-bit)

Hardware:

- Single Intel Xeon® 2.66 GHz quad core processor
- 4 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Dual-layer DVD-ROM
- Two 15,000 RPM SAS hard drives in RAID 1
- 100 GB of available disk space

Up to 3,000 Concurrent Students

Supports up to 3,000 concurrent clients **With a total student population of 20,000** **Requires one dedicated physical server**
One Server running: Web, Application, and Database
Operating System: • Windows Server 2003 SP2 (64-bit) • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 SP2 (64-bit) • Windows Server 2008 R2 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit) • openSUSE 12.x (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 6 GB of RAM • Single 1000 MB/s Network Interface Card • Dual-layer DVD-ROM • Four 15000 RPM SAS hard drives in RAID 1+0 • 100 GB of available disk space

4

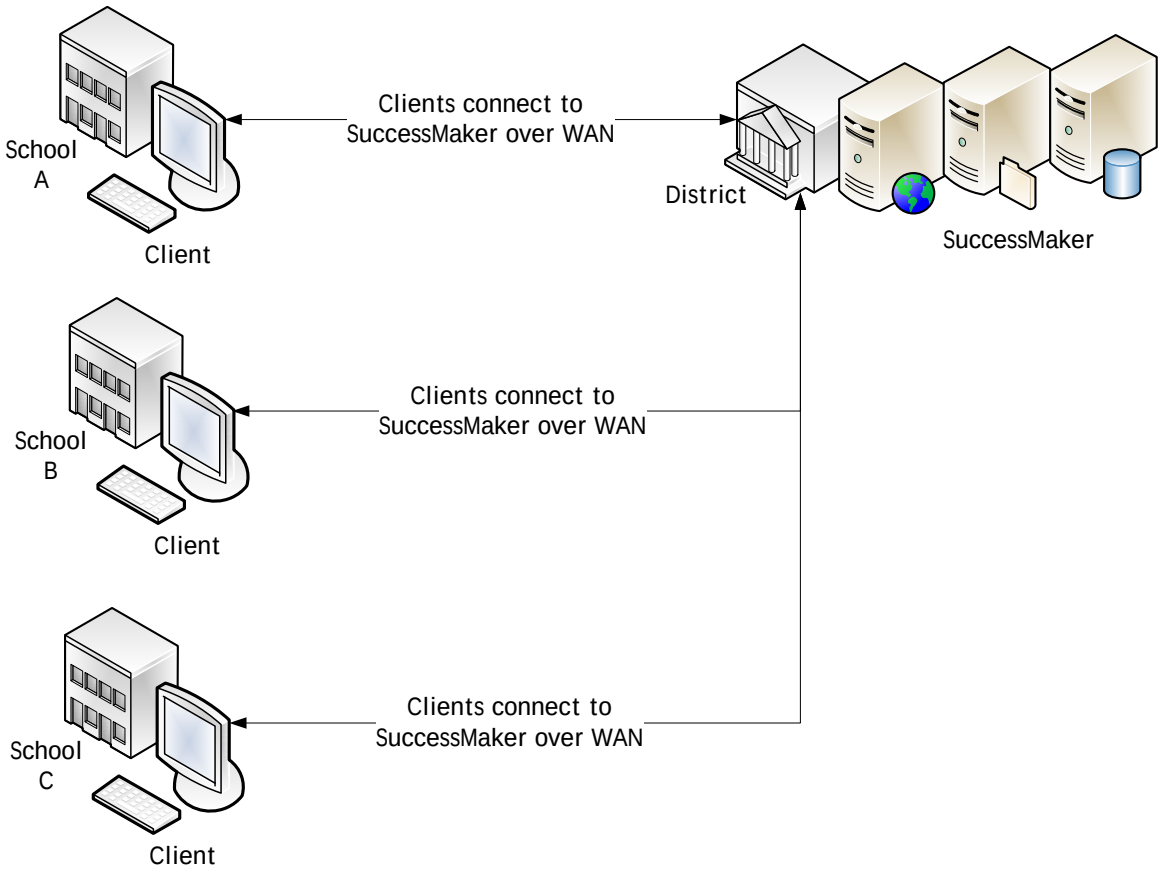
Multiple Server Deployment

The multiple server deployment is a model in which the main components of the software are installed on separate physical servers.

Typically, the servers are located in a district office or server farm used by the entire district or multiple schools.

Depending on the requirements, multiple servers may be necessary to handle the number of clients or to provide a central repository of district-wide data that is used for district reporting.

Multi-server installations vary by customer. A Pearson Sales Engineer should be involved early in the process to discuss the best configuration to implement the product.



Up to 5,000 Concurrent Students

Supports up to 5,000 concurrent clients
With a total student population of 50,000
Requires two dedicated physical servers

One Server running: Web/Application

Operating System:

- Windows Server 2003 SP2 (64-bit)
- Windows Server 2003 R2 SP2 (64-bit)
- Windows Server 2008 SP2 (64-bit)
- Windows Server 2008 R2 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit)
- openSUSE 12.x (64-bit)

Hardware:

- Dual Intel Xeon 2.66 GHz quad core processors
- 6 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Dual-layer DVD-ROM
- Two 15000 RPM SAS hard drives in RAID 1
- 30 GB of available disk space

Supports up to 5,000 concurrent clients
With a total student population of 50,000
Requires two dedicated physical servers

One Server running: Database

Operating System:

- Windows Server 2003 SP2 (64-bit)
- Windows Server 2003 R2 SP2 (64-bit)
- Windows Server 2008 SP2 (64-bit)
- Windows Server 2008 R2 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit)
- openSUSE 12.x (64-bit)

Hardware:

- Dual Intel Xeon 2.66 GHz quad core processors
- 6 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Dual-layer DVD-ROM
- Four 15000 RPM SAS hard drives in RAID 1+0
- 100 GB of available disk space

Up to 6,000 Concurrent Students

Supports up to 6,000 concurrent clients **With a total student population of 50,000** **Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2003 SP2 (64-bit) • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 SP2 (64-bit) • Windows Server 2008 R2 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit) • openSUSE 12.x (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Dual-layer DVD-ROM • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space

Supports up to 6,000 concurrent clients
With a total student population of 50,000
Requires three dedicated physical servers

One Server running: Application

Operating System:

- Windows Server 2003 SP2 (64-bit)
- Windows Server 2003 R2 SP2 (64-bit)
- Windows Server 2008 SP2 (64-bit)
- Windows Server 2008 R2 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit)
- openSUSE 12.x (64-bit)

Hardware:

- Dual Intel Xeon 2.66 GHz quad core processors
- 12 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Dual-layer DVD-ROM
- Two 15000 RPM SAS hard drives in RAID 1
- 30 GB of available disk space

One Server running: Database

Operating System:

- Windows Server 2003 SP2 (64-bit)
- Windows Server 2003 R2 SP2 (64-bit)
- Windows Server 2008 SP2 (64-bit)
- Windows Server 2008 R2 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit)
- openSUSE 12.x (64-bit)

Hardware:

- Dual Intel Xeon 2.66 GHz quad core processors
- 12 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Dual-layer DVD-ROM
- Four 15000 RPM SAS hard drives in RAID 1+0
- 100 GB of available disk space

Up to 7,000 Concurrent Students

Supports up to 7,000 concurrent clients **With a total student population of 50,000** **Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2003 SP2 (64-bit) • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 SP2 (64-bit) • Windows Server 2008 R2 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit) • openSUSE 12.x (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Dual-layer DVD-ROM • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space

Supports up to 7,000 concurrent clients **With a total student population of 50,000** **Requires three dedicated physical servers**
One Server running: Application
Operating System: • Windows Server 2003 SP2 (64-bit) • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 SP2 (64-bit) • Windows Server 2008 R2 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit) • openSUSE 12.x (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Dual-layer DVD-ROM • Two 15000 RPM SAS hard drives in RAID 1 • 30 GB of available disk space
One Server running: Database
Operating System: • Windows Server 2003 SP2 (64-bit) • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 SP2 (64-bit) • Windows Server 2008 R2 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit) • openSUSE 12.x (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Dual-layer DVD-ROM • Four 15000 RPM SAS hard drives in RAID 1+0 • 100 GB of available disk space

Up to 9,000 Concurrent Students

Supports up to 9,000 concurrent clients **With a total student population of 70,000** **Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2003 SP2 (64-bit) • Windows Server 2003 R2 SP2 (64-bit) • Windows Server 2008 SP2 (64-bit) • Windows Server 2008 R2 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit) • openSUSE 12.x (64-bit)
Hardware: • Dual Intel Xeon 2.67 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Dual-layer DVD-ROM • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space

Supports up to 9,000 concurrent clients
With a total student population of 70,000
Requires three dedicated physical servers

One Server running: Application

Operating System:

- Windows Server 2003 SP2 (64-bit)
- Windows Server 2003 R2 SP2 (64-bit)
- Windows Server 2008 SP2 (64-bit)
- Windows Server 2008 R2 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit)
- openSUSE 12.x (64-bit)

Hardware:

- Dual Intel Xeon 2.67 GHz quad core processors
- 12 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Dual-layer DVD-ROM
- Two 15000 RPM SAS hard drives in RAID 1
- 30 GB of available disk space

One Server running: Database

Operating System:

- Windows Server 2003 SP2 (64-bit)
- Windows Server 2003 R2 SP2 (64-bit)
- Windows Server 2008 SP2 (64-bit)
- Windows Server 2008 R2 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP1 (64-bit)
- openSUSE 12.x (64-bit)

Hardware:

- Four AMD Opteron 2.20 GHz quad core processors
- 32 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Dual-layer DVD-ROM
- Four 15000 RPM SAS hard drives in RAID 1+0
- 200 GB of available disk space

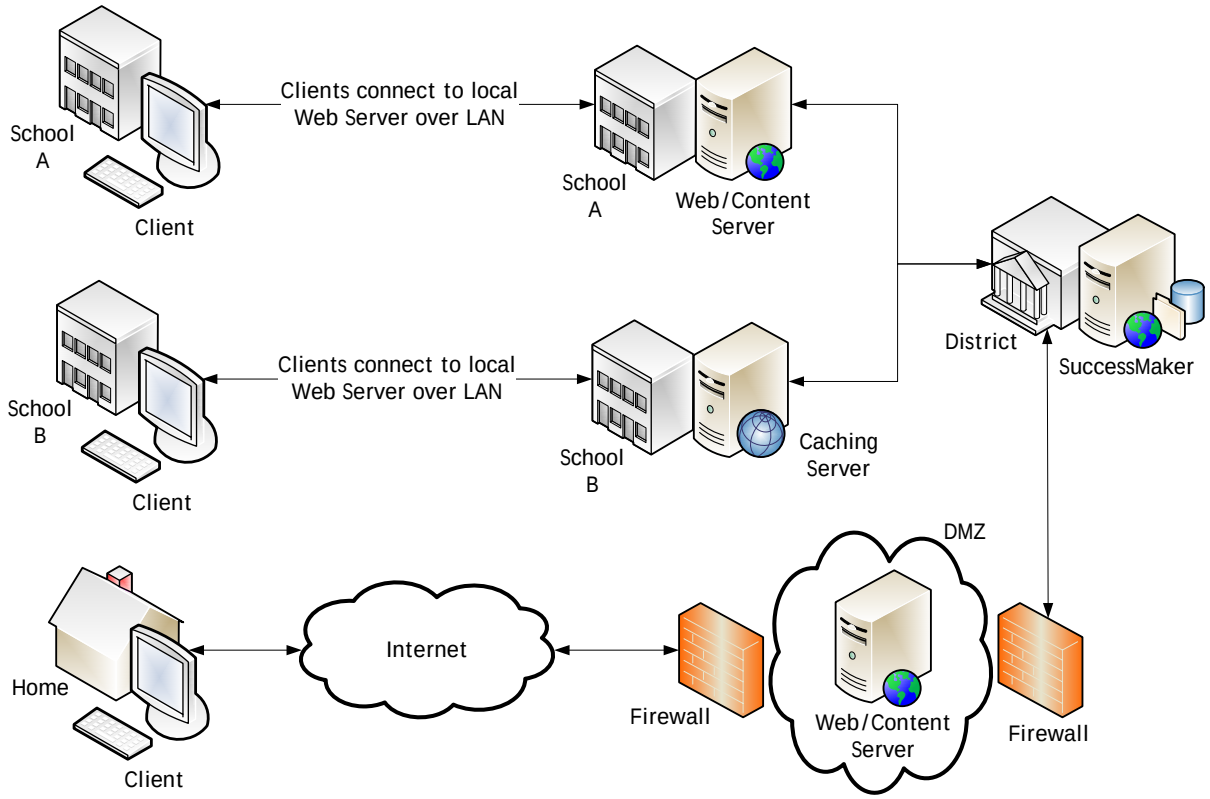
5

Web/Content Server

The Web content server can be used for home access or to reduce network traffic between buildings.

Typically, the server would be located in the DMZ for home access, or in a school building in a district deployed installation with low bandwidth between the school and district office.

Caching solutions are preferred to reduce network traffic between buildings. Each implementation will be unique based upon concurrent student usage and total student population. Web content servers are to not exceed 20 per a single SM database. Contact your Sales Engineer for a successful strategic implementation.



Up to 80 Concurrent Students

Supports up to 80 concurrent clients Requires one dedicated physical client or server
Client or Server running: Web
Operating System: • Windows Server 2003 R2 SP2 (32-bit / 64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Mac OS X Server 10.7.x (64-bit) • Mac OS X Server 10.8.x (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.x (64-bit)
Hardware: • Single Intel® Pentium 4 3.0 GHz processor • 1 GB of RAM (32-bit) • 2 GB of RAM (64-bit) • Single 1000 Mb/s Network Interface Card • Single 7200 RPM SATA hard drive • 30 GB of available disk space

Up to 2000 Concurrent Students

Supports up to 2000 concurrent clients Requires one dedicated physical client or server
Client or Server running: Web
Operating System: • Windows Server 2003 R2 SP2 (32-bit / 64-bit) • Windows Server 2008 R2 SP1 (64-bit) • Mac OS X Server 10.7.x (64-bit) • Mac OS X Server 10.8.x (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.x (64-bit)
Hardware: • Single Intel® Core Duo 2.13 GHz processor • 2 GB of RAM • Single 1000 Mb/s Network Interface Card • Single 7200 RPM SATA hard drive • 30 GB of available disk space

6

Windows Clients

Windows Clients
Operating System: • Windows XP (32-bit / 64-bit) • Windows Vista (32-bit / 64-bit) • Windows 7 (32-bit / 64-bit) • *Windows 8 (32-bit / 64-bit) Note: Hardware is based from the operating system manufacturer's system requirements.
Hardware: • Designed for 1024x768 resolution • Any compatible sound card • Any speakers or stereo headphones • Microphone with noise canceling
Software: • Internet Explorer 8.x, 9.x, 10.x or 11.x (32-bit / 64-bit) • Firefox (32-bit) • Chrome (32-bit) • Java Runtime Environment 1.6.24 – 1.6.45; 1.7.1 – 1.7.5; 1.7.7 – 1.7.51 (32-bit / 64-bit) [1.7.6 not supported] • Adobe Reader (Teacher only) • Adobe Flash Player 11.1.x – 11.8.x (32-bit / 64-bit)
* Note: Windows RT is not a supported operating system.

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Mac Clients

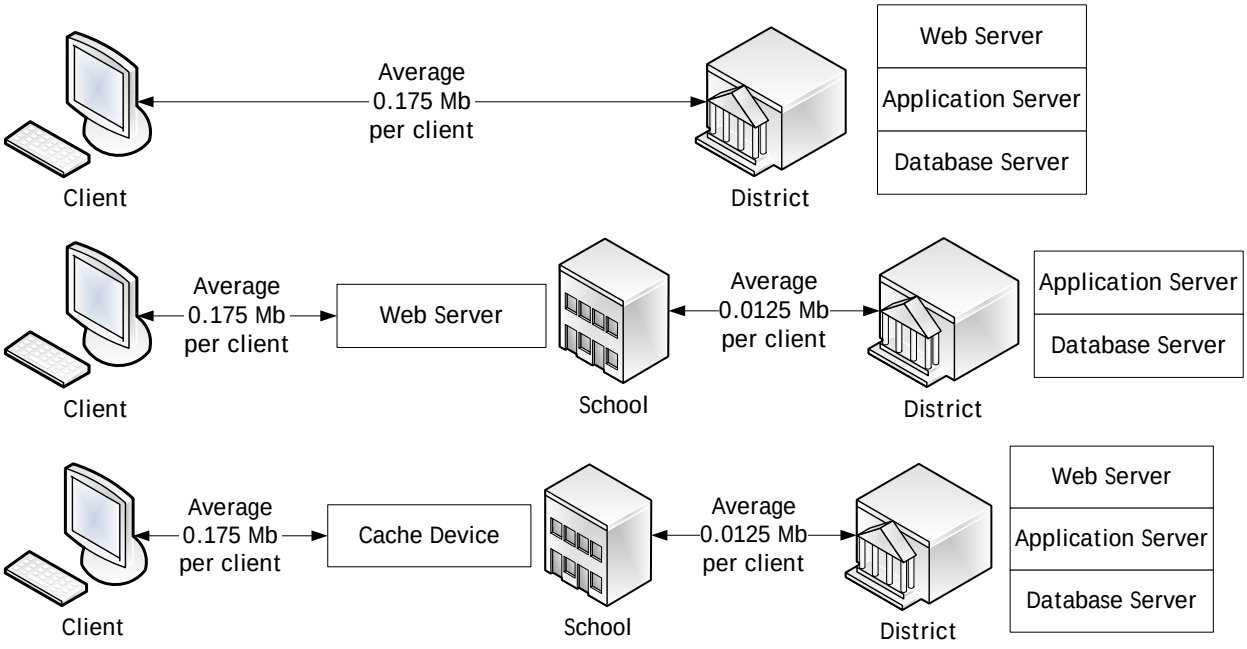
Mac Clients
Operating System: • Mac OS X 10.6.x (32-bit / 64-bit) • Mac OS X 10.7.x (64-bit) • Mac OS X 10.8.x (64-bit) Note: Hardware is based from the operating system manufacturer's system requirements.
Hardware: • Designed for 1024x768 resolution • Any compatible sound card • Any speakers or stereo headphones • Microphone with noise canceling • Griffin iMic USB audio adapter
Software: • Safari 5.1.2 – 5.1.9; 6.0.x (32-bit / 64-bit) • Firefox (32-bit) • Chrome (32-bit) - OS X 10.6.x only • Apple Java Runtime Environment 1.6.24 – 1.6.65 (32-bit and 64-bit); or Oracle Java Runtime Environment 1.7.7 – 1.7.51 (64-bit) [1.7.6 not supported] • Adobe Reader (Teacher only) • Adobe Flash Player 11.1.x – 11.8.x (32-bit / 64-bit)

8

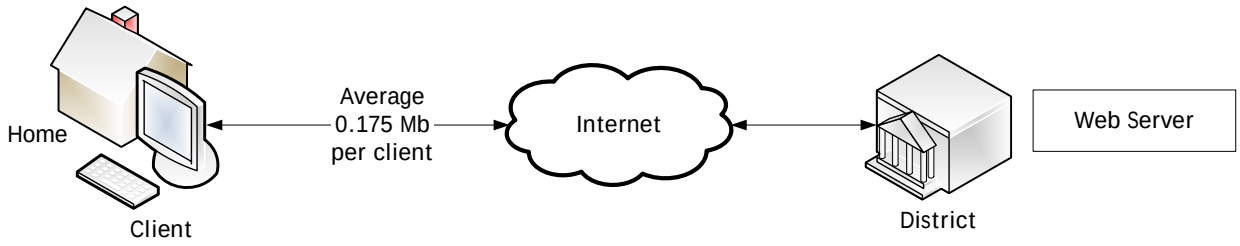
Network Bandwidth

Network Bandwidth Requirements

School or District Model



Home Model



Note: Requires 1.5 Mb/s (Megabit) Internet connection

Wireless

Spectrum:

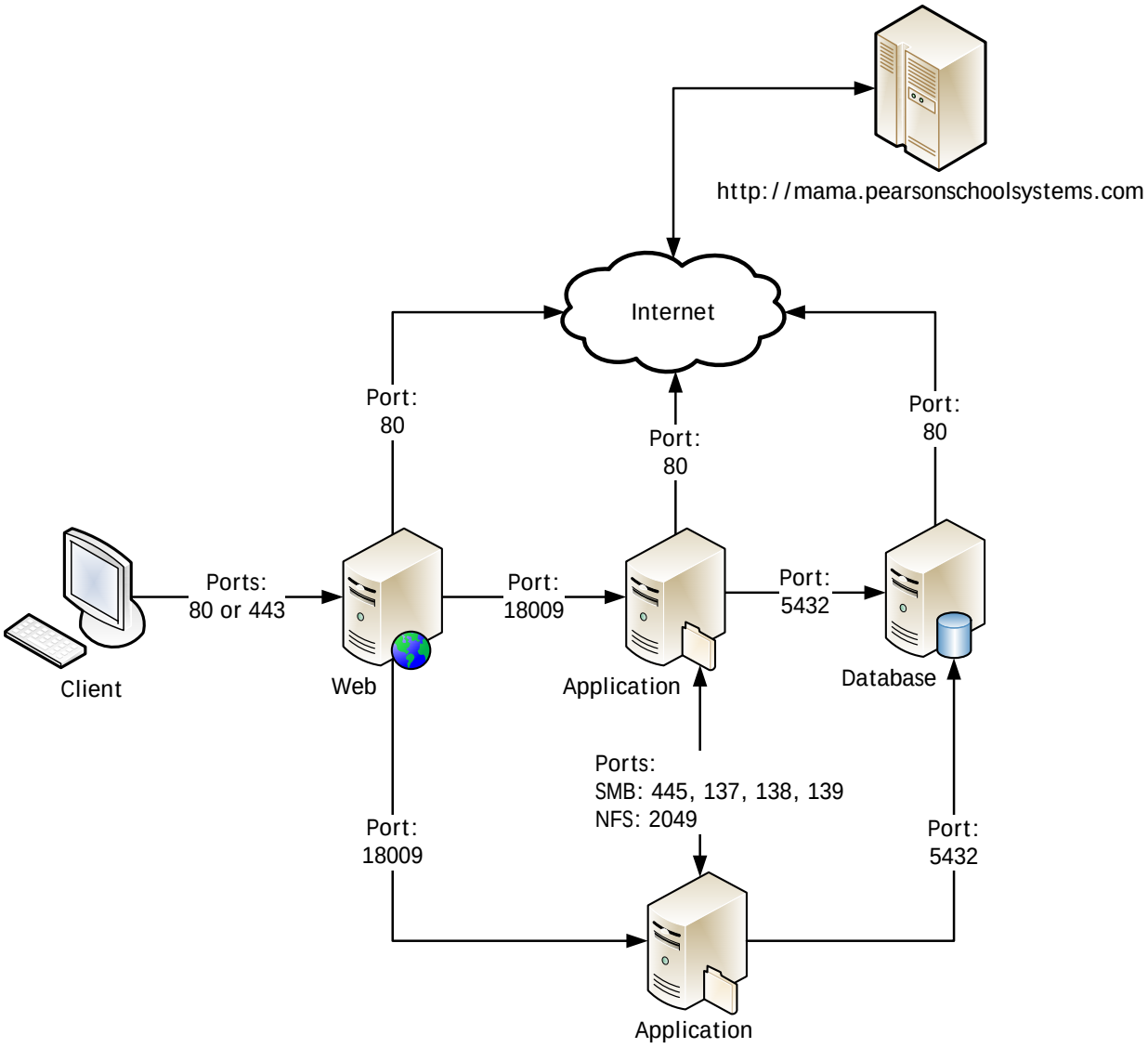
- 802.11A or 802.11N in 5 GHz spectrum.
- In properly configured networks, wireless should be acceptable with 15 to 30 stations per access point.

Network Bandwidth Requirements
Notes: • Estimates are based on product traffic only, without overhead. • Contact your Pearson Sales Engineer to determine the best implementation option.

9

Firewall Settings

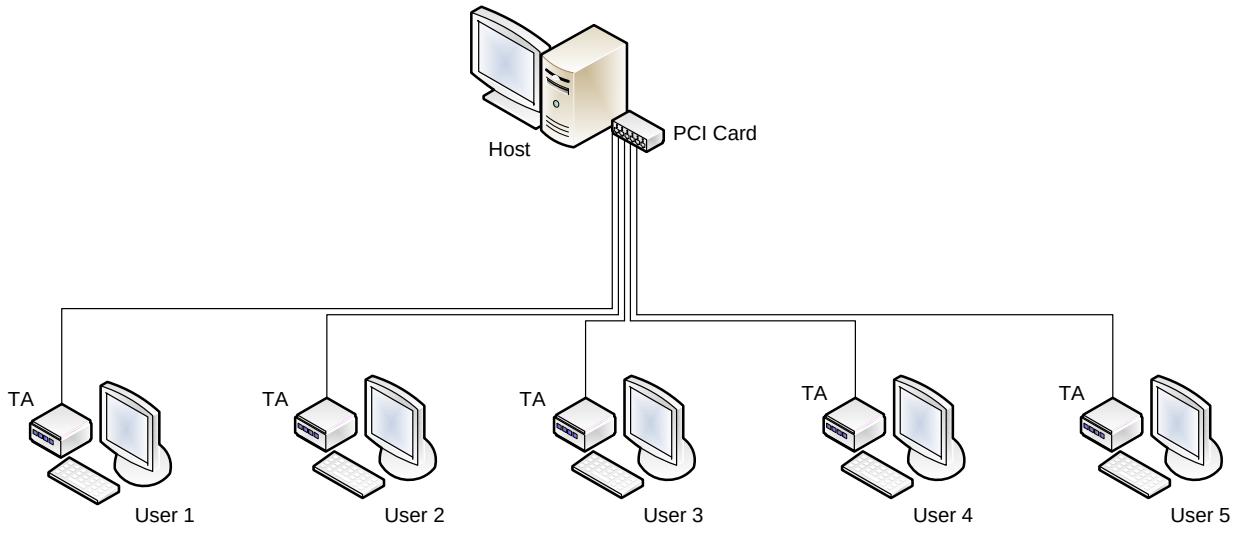
The following is a guide on firewall settings.



10

NComputing Host

NComputing provides a software- and hardware-based solution that allows multiple students to have a Terminal Adapter (TA) with a monitor, keyboard, mouse, and audio where all access a shared host (CPU, RAM, network, and hard drive).



X-Series

X550 PCI Card
Single X550 – Supports up to 5 concurrent clients + host
Can be: • * Windows XP SP3 (32-bit) • Windows Server 2003 R2 SP2 (32-bit) • Windows Server 2008 R2 SP1 (64-bit) • * Windows 7 SP1 (32-bit / 64-bit)

X550 PCI Card
With at least: • Single Intel Core 2 Duo 3.0 GHz processor • 3 GB of RAM (x86) / 6 GB of RAM (64-bit) • Single 1000 Mb/s Network Interface Card (NIC) • Single 7200 RPM SATA hard drive • Analog headset for each Terminal Adapter • USB headset for host
And installed: • Windows Server CAL per NComputing Terminal Adapter • Windows RDP CAL per NComputing Terminal Adapter Note: Fluency is supported up to 6 TAs. * Note: Windows Server and appropriate client access licenses are required for multiuser environments using NComputing products. Client operating systems, such as Windows XP, Windows Vista, and Windows 7, are appropriate for single user applications such as 1:1 VDI, display systems, and remote access. Only Professional, Business, Enterprise, and Ultimate versions of client OS's are supported; Home versions are NOT supported. Additional information on licensing is available at www.ncomputing.com/mslicensing.